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CMCC Doc. No. 151x5.1367  
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9 February 1959 *DDP-1224-58*

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Dear Dan:

Attached is Field Engineering Progress Report No. 3 (CMCC Doc. No. 163x5.99). This report covers the field engineering services furnished under Contract A-101 for the period of 1 December through 31 December 1958.

Sincerely,

*Jack*  
Jack

Enclosures:

CMCC Doc. No. 163x5.99 - Copies 1 and 2 of 10

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PROGRESS REPORT NO. 3

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FIELD ENGINEERING SERVICES FOR  
CONTRACT A-101

1 December through 31 December 1958

CMCC Document No. 163X5.99

Copy 1 of 10 copies

30 January 1959

(This document contains a total of 10 sheets,  
including this title page.)

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## 1. General Summary

- a. This report describes the in-plant field-engineering activities in support of Contract A-101, Requirements 1 and 3, and covers the period from 1 December through 31 December 1958. The activities are divided into four general categories: supervision, training, field modifications, and general field support. The last section of the report is a cost summary for the period 1 July through 31 December 1958.
- b. Management activity during the report period included a continuation of work pertinent to closing out Contract A-101, technical briefings on the System 7 project, and supervision of modification and final testing on a large number of Data Reduction System racks. One field engineer returned to the factory from Detachment B and a number of reassignments will take place early in January 1959.
- c. Training-aid diagrams for the C rack of the Data Reduction System were completed and are being distributed. A second package of training aids is in preparation. One Field Service Bulletin and modification kit for System 1 were completed in December. Environmental testing for System 4, Serial 106, was completed early in December and the test report is in preparation.

## 2. Supervisory Activities

### a. General and Administrative

(1) Evaluation, analysis and scheduling of work remaining under Contract A-101 was completed during the report period. This data will be forwarded in a separate report. A proposal for a time-and-materials contract covering field-engineering services during the first half of 1959 was completed and forwarded to the contracting officer.

(2) During the month of December, [REDACTED] attended two technical meetings on the System 7 project. One meeting was held at Edwards Air Force Base, and the other in Washington, D.C.

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(3) Additional management activity included supervision of inspection, trouble-shooting, and final checkout of nineteen data-reduction system racks. The Field Engineering activity has undertaken this work to ensure January delivery of these equipments.

b. Personnel

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c. Orientation and Technical Briefings

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3. Training

a. In-Plant Training Program

At the close of the report period, one engineer and three technicians were in training, in preparation for field assignment. An informal lecture on basic theory and design of transistor circuits was given to engineers and technicians in training.

b. Training Aids

The first set of training aids for the Data Reduction System, consisting of partial and simplified schematic diagrams for the C rack, was completed during the report period. Distribution to interested parties is now in process. These training aids are

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available as notebook-size diagrams, or as large wall charts for classroom use. The second set of diagrams, covering the A, B<sub>1</sub> and B<sub>2</sub> racks, is 50% complete. A training pamphlet covering tape-recorder principles is being printed and will be distributed some time in January.

#### 4. Field Modifications

a. Field Service Bulletin No. 1-7, covering modification of the bowtie antenna (MP-11719) for System 1, Customer C, was completed during the report interval. The modification kits will be delivered to WRAMA during January. Modification kits for all service bulletins listed as completed in Progress Report No. 2 have been shipped.

b. Field Service Bulletin No. 5 for System 4 has been canceled. This bulletin covered the addition of a regulator circuit to the +55-volt power supply. A new Field Service Bulletin, which includes revised adjustment procedures for Bands 8, 9 and 10 receivers, is in preparation. The bulletin and modification kit will be available in late January or early February.

#### 5. General Field Support

##### a. Technical Services

(1) Activities in this area include the engineering work involved in answering queries and solving special problems encountered in the field; procurement and shipment of special parts not available through normal channels; and processing and analysis of fault reports. These activities are handled on a day-to-day basis and a detailed description is beyond the scope of this report.

(2) Publication of a series of Technical Information Bulletins was initiated in late December. These bulletins will be of an informal nature and will include data such as service and troubleshooting hints, lists of Field Service Bulletins, theory of operation for modified circuits, etc.

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## b. Special Projects

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(1) The special flight test and instrumentation program on the [REDACTED] in which Field Engineering personnel participated, was terminated in December.

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(2) Another special activity during the report period involved modification of the System 4 recorder for operation at tape speeds of 30 and 60 inches-per-second. This work was done at the request of [REDACTED] and the modified recorder was successfully demonstrated in the laboratory to [REDACTED]

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(3) As indicated in a previous paragraph, Field Engineering has undertaken the task of final inspection, troubleshooting, and final test and adjustment on equipments of the Data Reduction System. During the month of December, work was completed on ten Event Marker Equipments (F racks) which had been held up for some time pending action on proposals, modifications and evaluation. Early in January work will begin on seven C racks, one G rack and one J rack. These will be shipped before the end of January.

## c. Unsatisfactory Reports

There were no Unsatisfactory Reports answered during the month of December 1958.

## d. System 4 Environmental and Flight Tests (Customer C)

Environmental tests for System 4 Serial 106 were completed early in the report period. Preparation of the engineering notebook and the environmental test report is in progress. As indicated in the previous report, no flight-test program was conducted on Serial 106.

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## 6. Cost Summary

A summary of costs for Field Engineering Services under Contract A-101 for the period 1 July through 31 December 1958, is tabulated on the following page. The total balance for both customers at the close of the report period was \$38,448. As indicated in Progress Report No. 2, a portion of these funds will be needed to complete work still in process at the close of the contract period.

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